

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061215\
 Data File : BF079964.D
 Acq On : 13 Jun 2015 7:46
 Operator : TP/IZ
 Sample : G2599-03 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VALHALLA-W3-6.5-7

Manual Integrations
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Quant Time: Jun 15 01:26:03 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF061115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 12 22:57:49 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	42861	20.00	ng	0.00
21) Naphthalene-d8	8.67	136	168415	20.00	ng	0.00
38) Acenaphthene-d10	10.44	164	95253	20.00	ng	0.00
63) Phenanthrene-d10	11.94	188	193219	20.00	ng	-0.03
75) Chrysene-d12	14.81	240	220772m	20.00	ng	-0.33
86) Perylene-d12	16.65	264	225395m	20.00	ng	-0.45
System Monitoring Compounds						
5) 2-Fluorophenol	5.99	112	146836	62.82	ng	0.00
7) Phenol-d6	6.97	99	186747	58.64	ng	0.00
23) Nitrobenzene-d5	7.93	82	100952	39.55	ng	0.00
41) 2,4,6-Tribromophenol	11.23	330	40737	44.47	ng	-0.01
44) 2-Fluorobiphenyl	9.75	172	220214	32.37	ng	0.00
78) Terphenyl-d14	13.59	244	303616m	31.71	ng	-0.18
Target Compounds						Qvalue
31) Naphthalene	8.68	128	191904	20.85	ng	99
37) 2-Methylnaphthalene	9.38	142	49052	7.89	ng	95
45) 1,1'-Biphenyl	9.85	154	16537	2.15	ng	93
49) Dimethylphthalate	10.12	163	57602	7.55	ng	# 99
51) Acenaphthene	10.48	154	240090	38.13	ng	99
54) Dibenzofuran	10.65	168	143398	15.59	ng	# 89
57) Fluorene	10.99	166	187988	23.44	ng	99
70) Phenanthrene	11.98	178	1828580	158.79	ng	96
71) Anthracene	12.02	178	583589	52.37	ng	100
72) Carbazole	12.17	167	261283	24.18	ng	100
74) Fluoranthene	13.21	202	2076891	163.15	ng	98
77) Pyrene	13.45	202	1767546	127.47	ng	97
80) Benzo(a)anthracene	14.80	228	998227m	71.20	ng	
82) Chrysene	14.85	228	769615m	62.56	ng	
85) Indeno(1,2,3-cd)pyrene	18.54	276	432221m	29.44	ng	
87) Benzo(b)fluoranthene	16.11	252	1010333m	73.16	ng	
88) Benzo(k)fluoranthene	16.15	252	276543m	19.63	ng	
89) Benzo(a)pyrene	16.58	252	729292m	55.53	ng	
90) Dibenzo(a,h)anthracene	18.55	278	99131m	7.68	ng	
91) Benzo(g,h,i)perylene	19.11	276	405364m	30.34	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

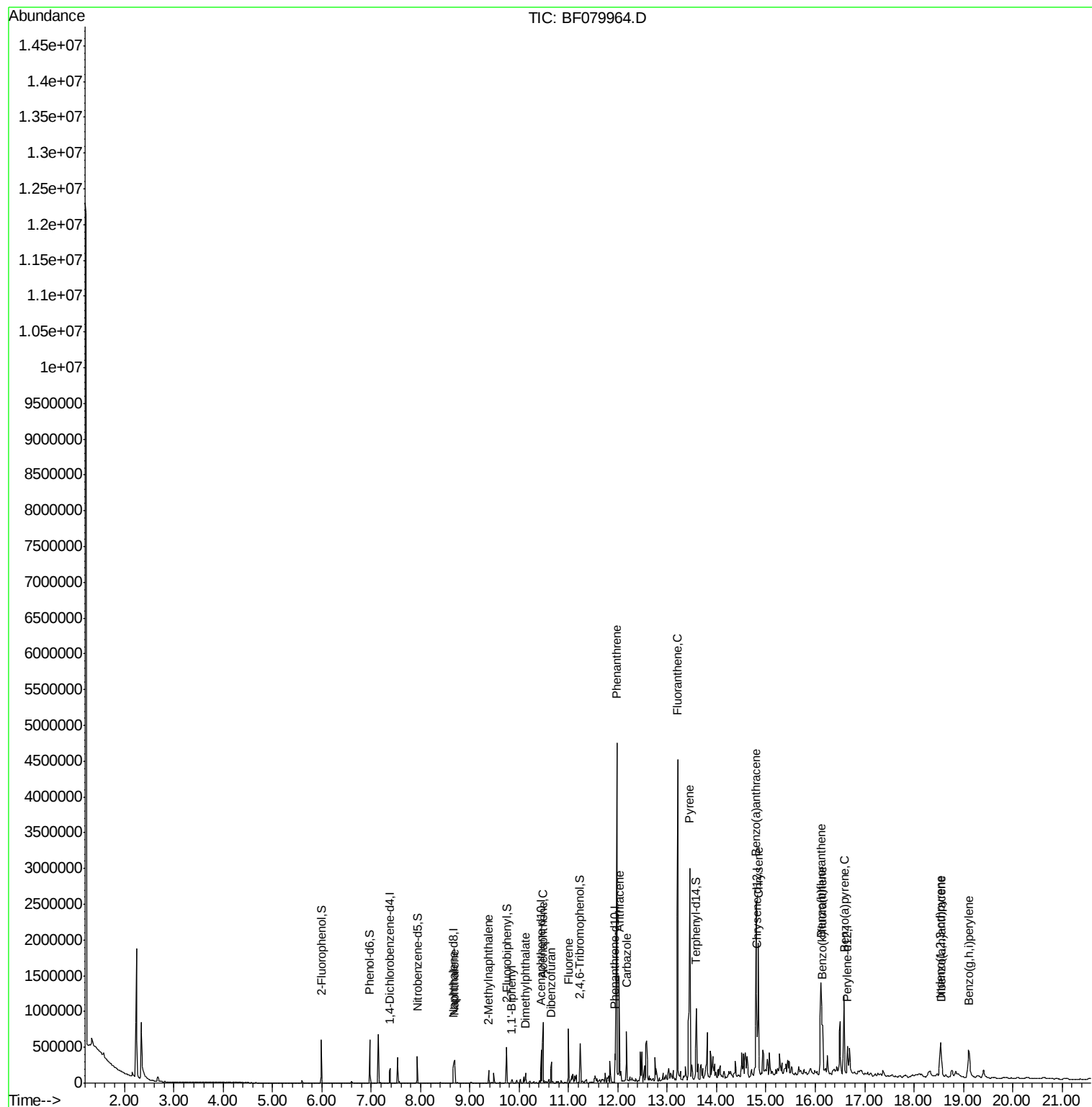
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061215\
Data File : BF079964.D
Acq On : 13 Jun 2015 7:46
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Sample : G2599-03 2X
Misc :
ALS Vial : 28 Sample Multiplier: 1

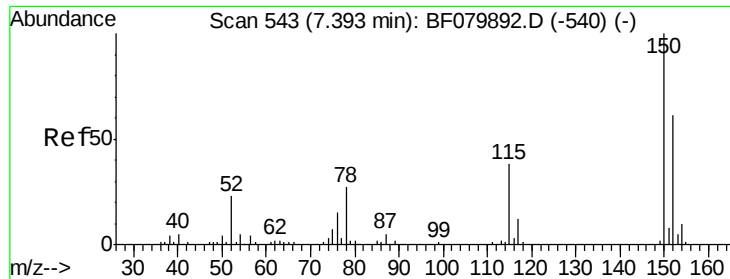
Instrument :
BNA_F
ClientSampleId :
VALHALLA-W3-6.5-7

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Quant Time: Jun 15 01:26:03 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF061115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 12 22:57:49 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.38 min Scan# 542

Delta R.T. 0.00 min

Lab File: BF079964.D

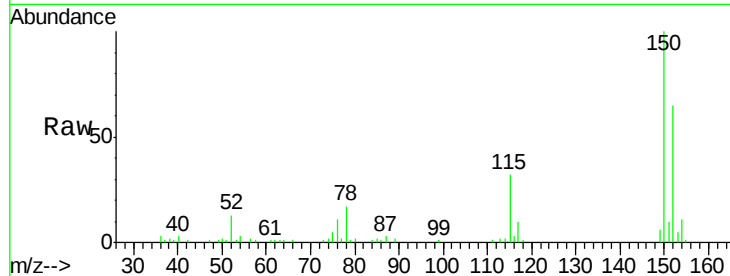
Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

ClientSampleId :

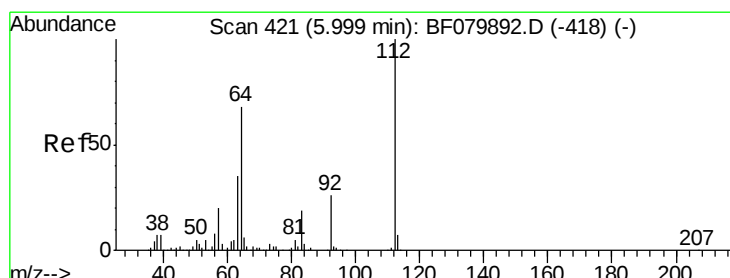
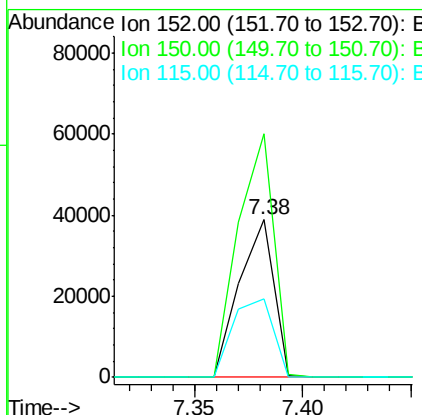
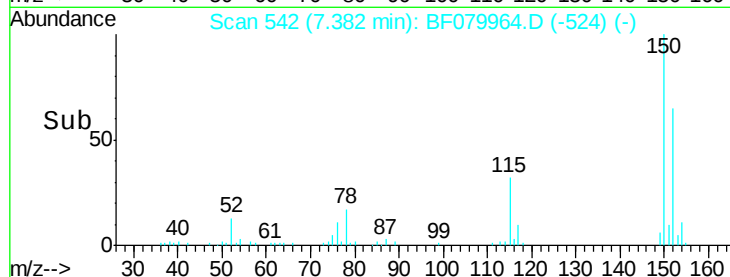
VALHALLA-W3-6.5-7



Tgt Ion:	152	Resp:	42861
Ion Ratio	Lower	Upper	
152	100		
150	154.6	131.0	196.4
115	49.6	49.8	74.6

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#5

2-Fluorophenol

Concen: 62.82 ng

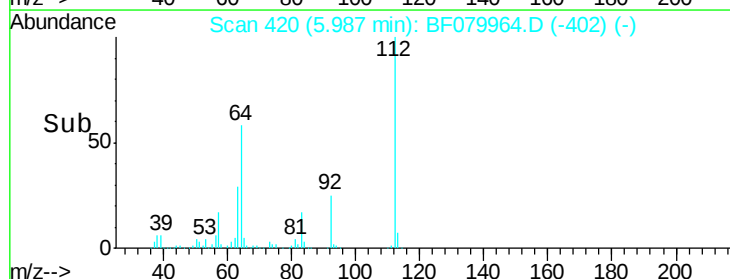
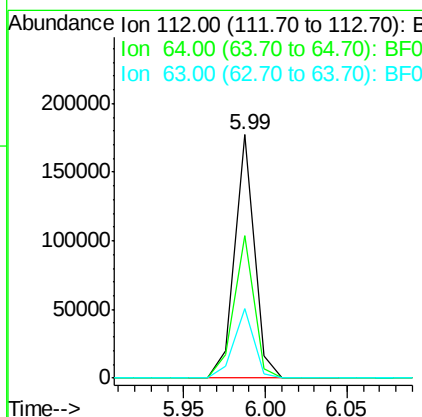
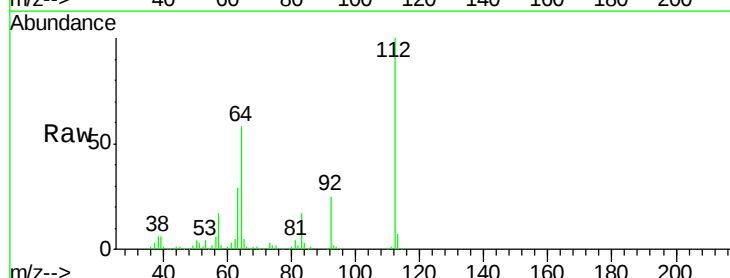
RT: 5.99 min Scan# 420

Delta R.T. 0.00 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion:	112	Resp:	146836
Ion Ratio	Lower	Upper	
112	100		
64	58.3	54.5	81.7
63	28.7	27.9	41.9





#7

Phenol-d6

Concen: 58.64 ng

RT: 6.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

ClientSampleId :

VALHALLA-W3-6.5-7

Tgt Ion: 99 Resp: 186747
Ion Ratio Lower Upper

99 100

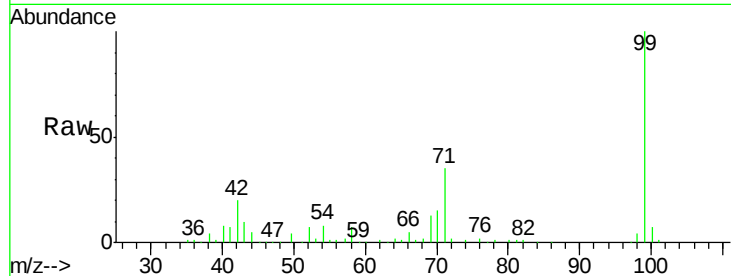
42 20.4 12.9 19.3#

71 34.8 23.4 35.2

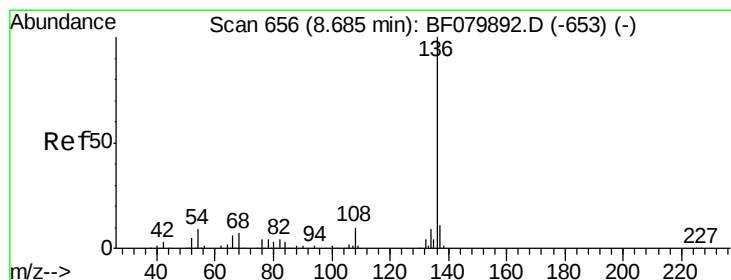
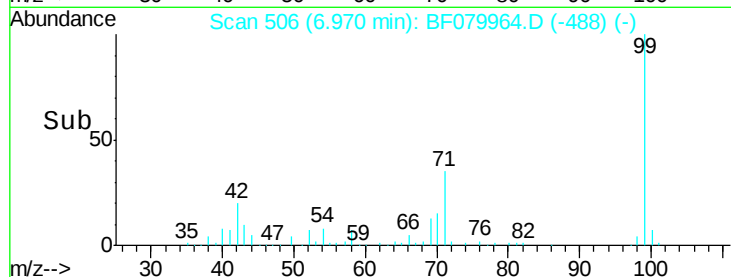
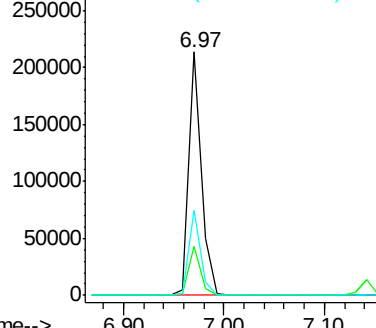
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.67 min Scan# 655

Delta R.T. 0.00 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion: 136 Resp: 168415
Ion Ratio Lower Upper

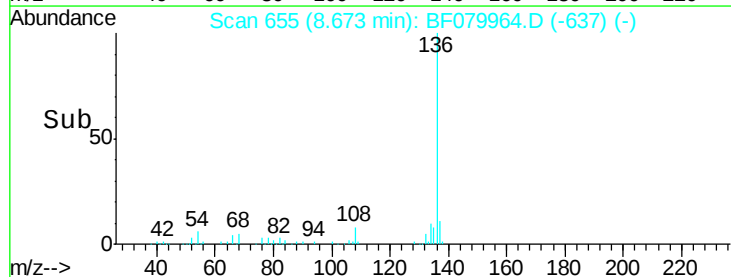
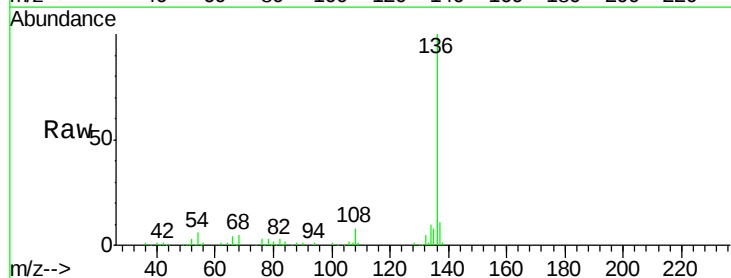
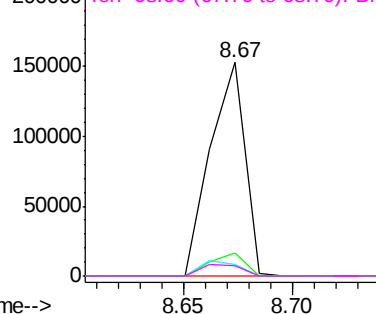
136 100

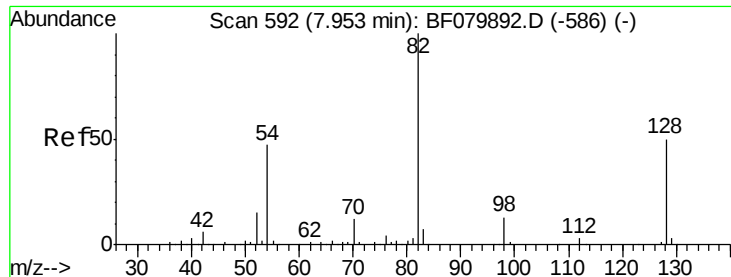
137 10.6 8.7 13.1

54 5.6 7.3 10.9#

68 4.5 5.9 8.9#

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





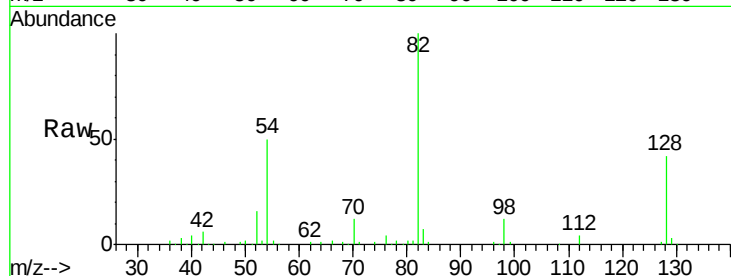
#23
 Nitrobenzene-d5
 Concen: 39.55 ng
 RT: 7.93 min Scan# 590
 Delta R.T. 0.00 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Instrument :
 BNA_F
 ClientSampleId :
 VALHALLA-W3-6.5-7

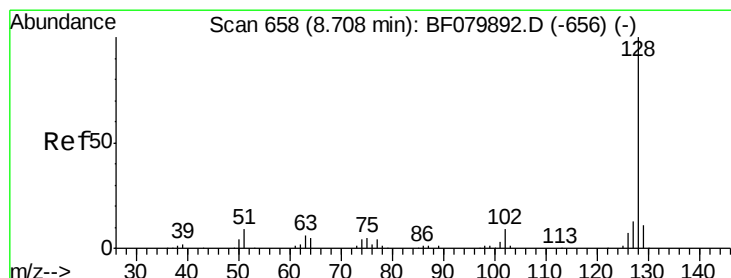
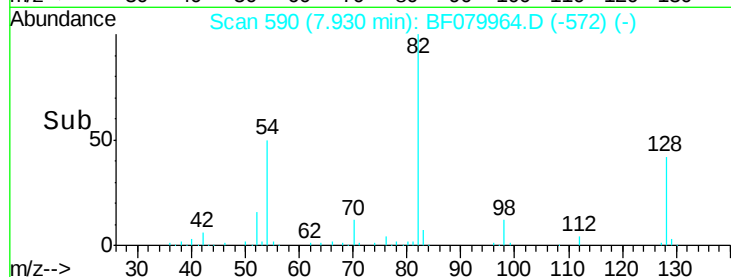
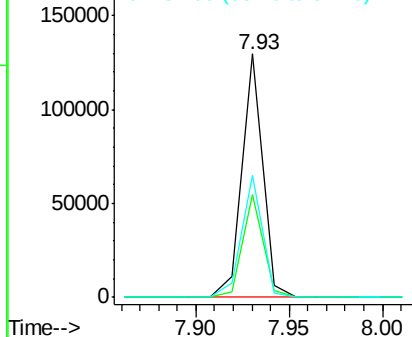
Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.0	40.3	60.5
54	50.3	38.0	57.0

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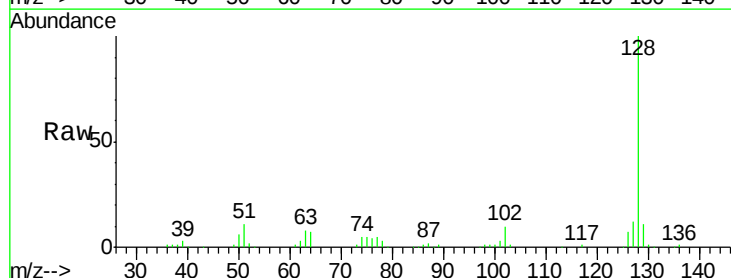


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

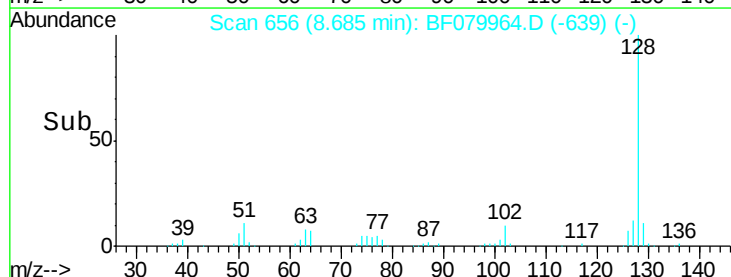
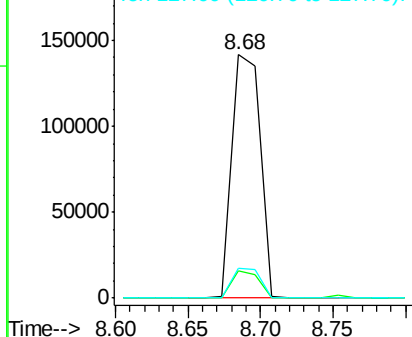


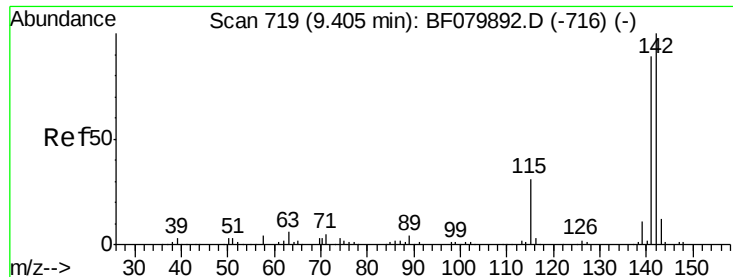
#31
 Naphthalene
 Concen: 20.85 ng
 RT: 8.68 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.4	10.5	15.7



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





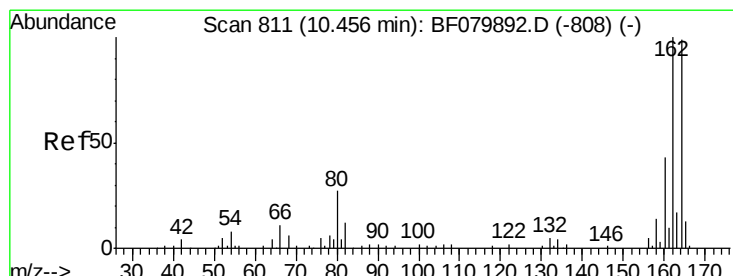
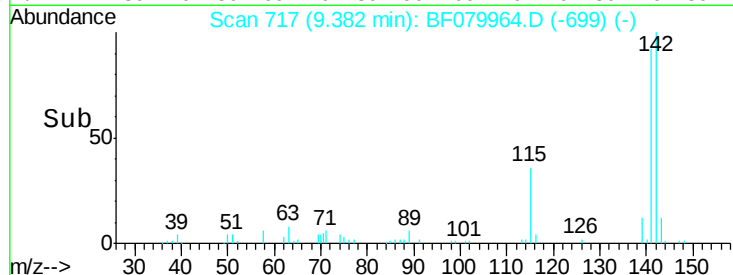
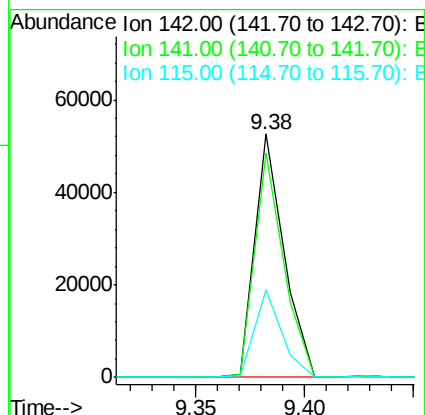
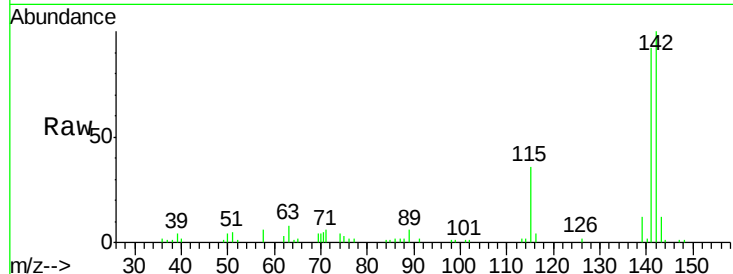
#37
 2-Methylnaphthalene
 Concen: 7.89 ng
 RT: 9.38 min Scan# 717
 Delta R.T. 0.00 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Instrument :
 BNA_F
 ClientSampleId :
 VALHALLA-W3-6.5-7

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	49052		
141	91.9	70.9	106.3	
115	36.0	25.0	37.4	

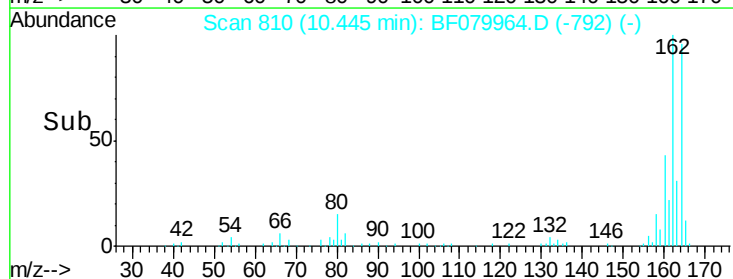
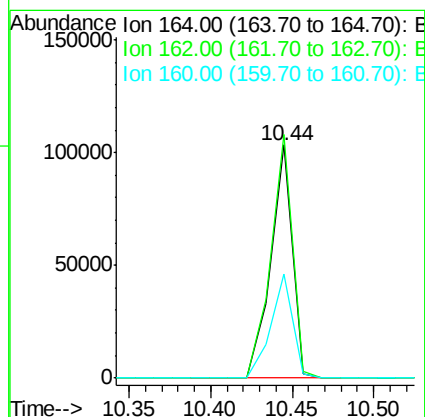
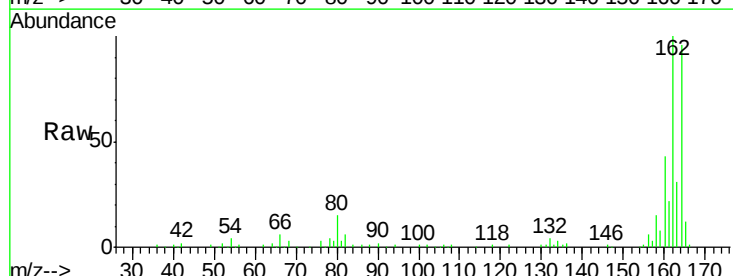
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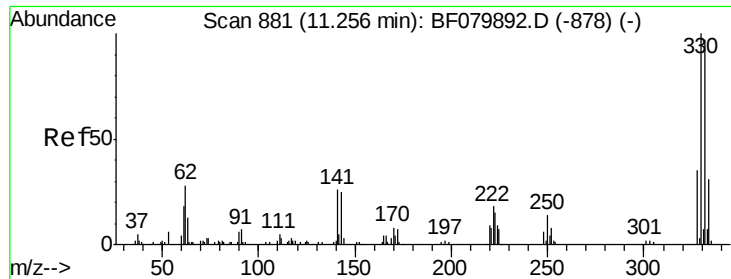
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.44 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	95253		
162	104.6	80.7	121.1	
160	44.7	34.6	51.8	





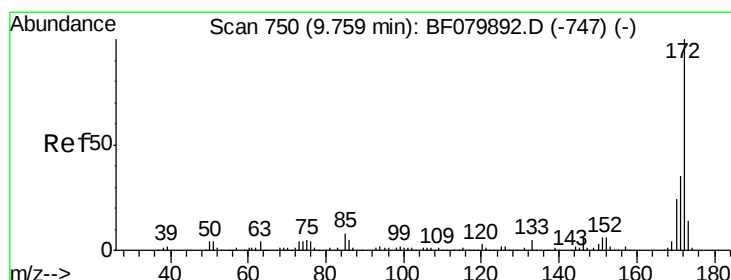
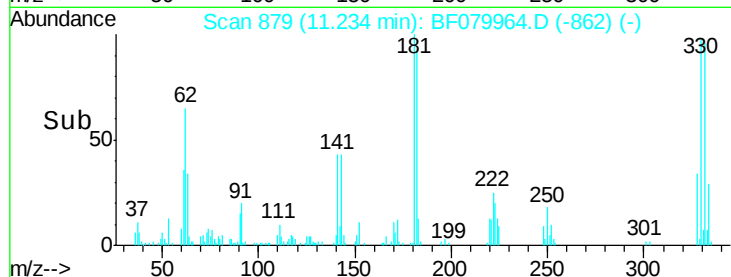
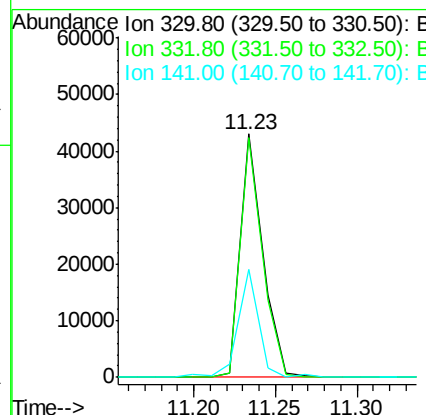
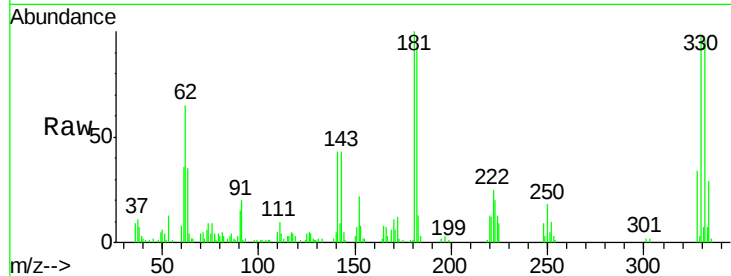
#41
 2,4,6-Tribromophenol
 Concen: 44.47 ng
 RT: 11.23 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Instrument :
 BNA_F
 ClientSampleId :
 VALHALLA-W3-6.5-7

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	40737		
332	96.6	77.3	115.9	
141	40.9	26.8	40.2#	

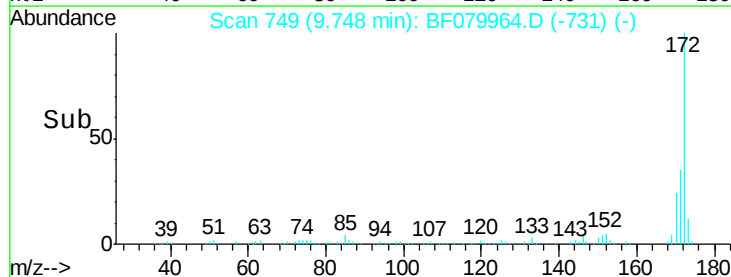
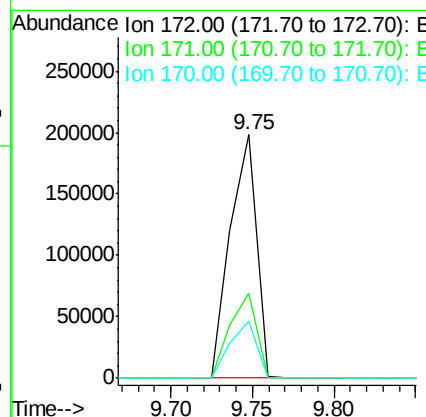
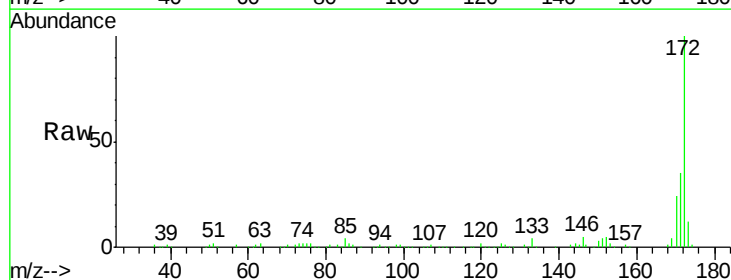
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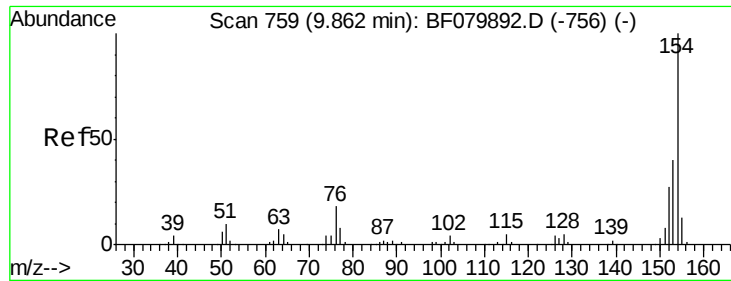
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#44
 2-Fluorobiphenyl
 Concen: 32.37 ng
 RT: 9.75 min Scan# 749
 Delta R.T. 0.00 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	220214		
171	34.7	28.3	42.5	
170	23.5	19.0	28.4	





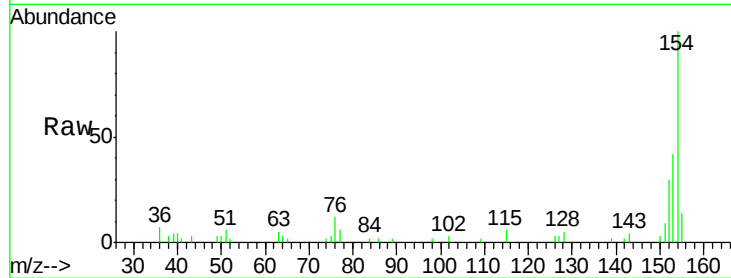
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 1,1'-Biphenyl
 Concen: 2.15 ng
 RT: 9.85 min Scan# 758
 Delta R.T. 0.00 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Instrument :
 BNA_F
 ClientSampleId :
 VALHALLA-W3-6.5-7

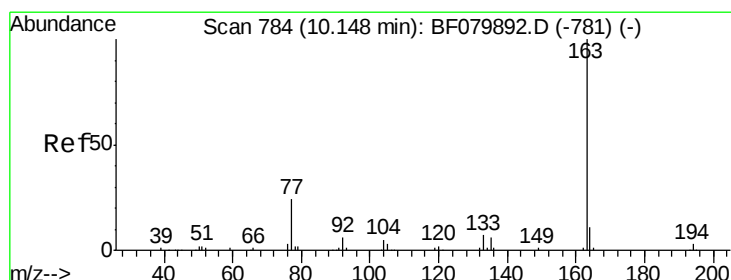
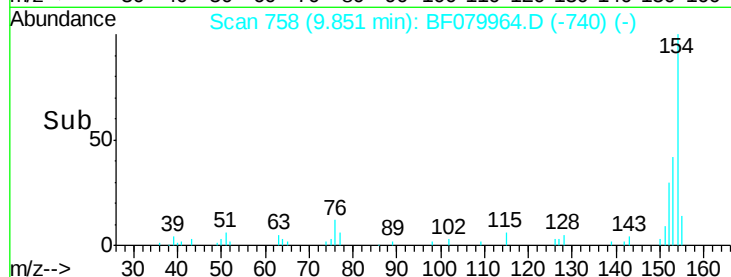
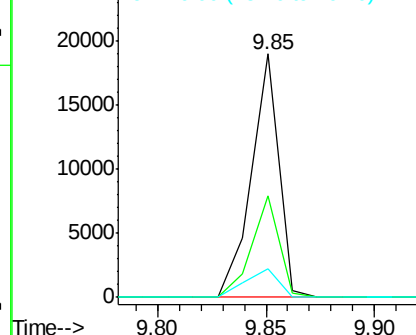
Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	41.7	20.1	60.1
76	11.5	0.0	38.4

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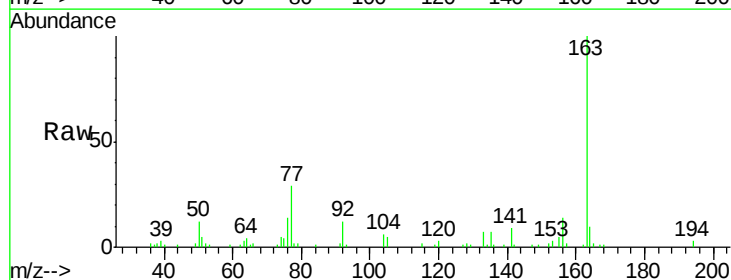


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

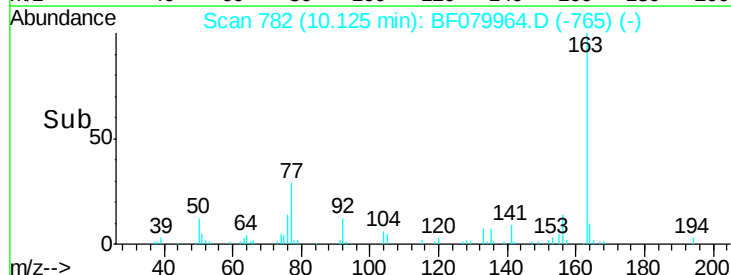
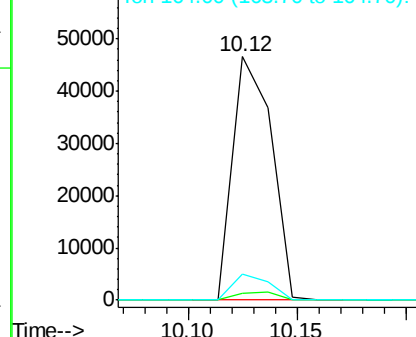


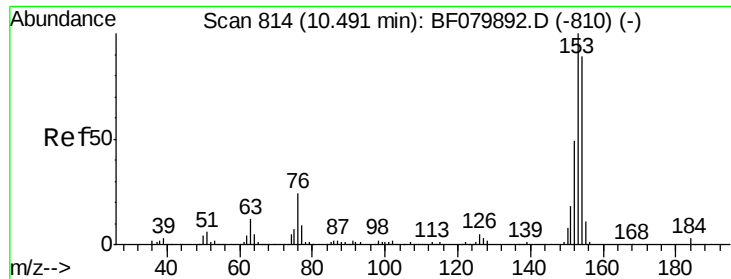
#49
 Dimethylphthalate
 Concen: 7.55 ng
 RT: 10.12 min Scan# 782
 Delta R.T. -0.01 min
 Lab File: BF079964.D
 Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	2.6	2.6	4.0#
164	10.4	8.6	12.8



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 38.13 ng

RT: 10.48 min Scan# 813

Delta R.T. 0.00 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

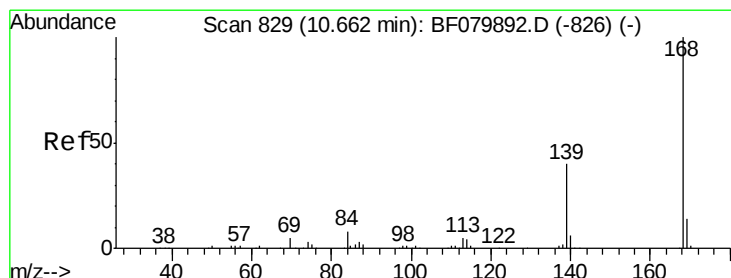
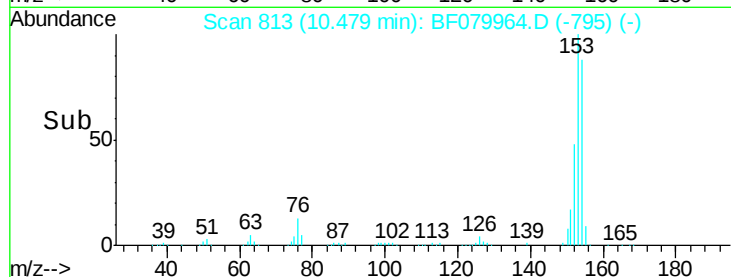
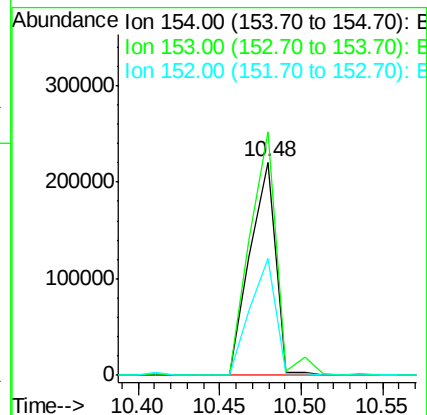
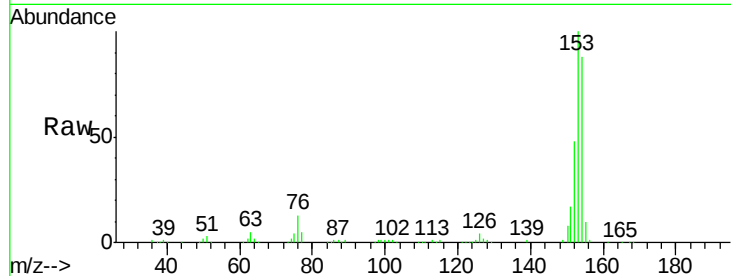
ClientSampleId :

VALHALLA-W3-6.5-7

Tgt Ion:	154	Resp:	240090
Ion Ratio	Lower	Upper	
154	100		
153	114.1	90.0	135.0
152	54.7	43.7	65.5

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#54

Dibenzofuran

Concen: 15.59 ng

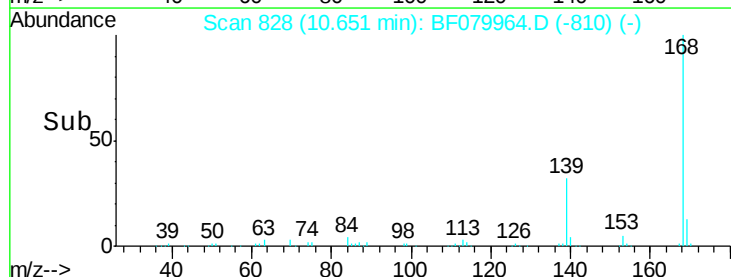
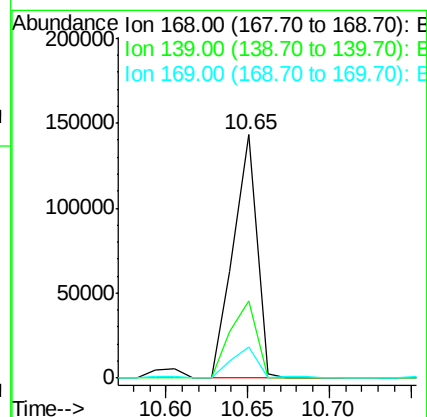
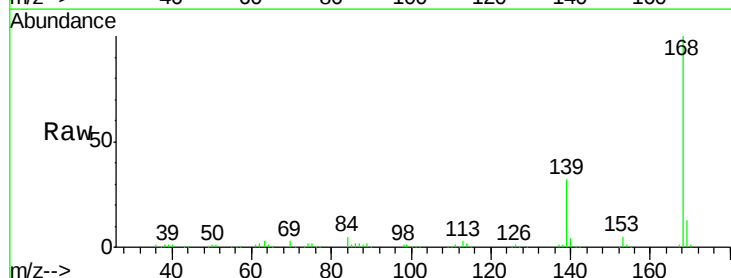
RT: 10.65 min Scan# 828

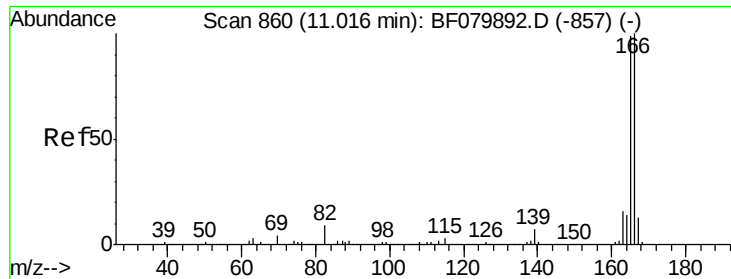
Delta R.T. 0.00 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion:	168	Resp:	143398
Ion Ratio	Lower	Upper	
168	100		
139	31.9	32.2	48.2#
169	12.6	11.0	16.6





#57

Fluorene

Concen: 23.44 ng

RT: 10.99 min Scan# 858

Delta R.T. 0.00 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

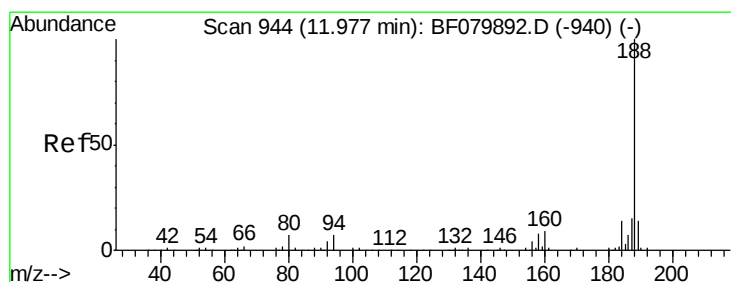
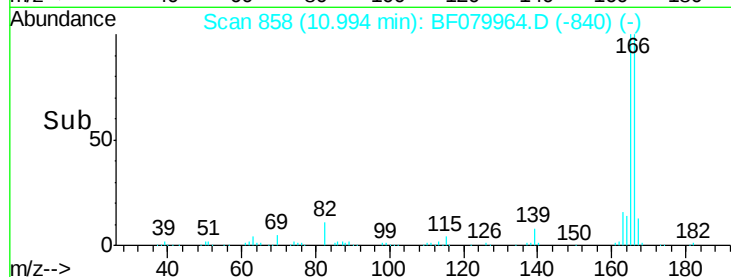
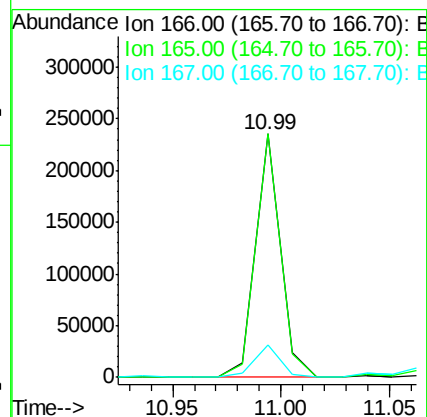
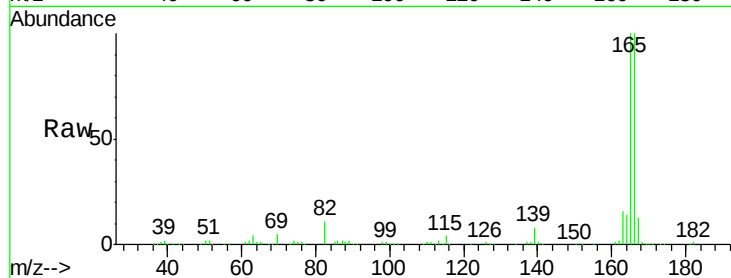
ClientSampleId :

VALHALLA-W3-6.5-7

Tgt Ion:	166	Resp:	187988
Ion Ratio	Lower	Upper	
166	100		
165	100.1	79.0	118.6
167	13.5	10.3	15.5

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#63

Phenanthrene-d10

Concen: 20.00 ng

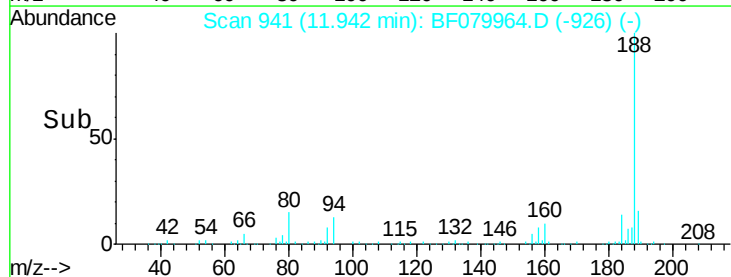
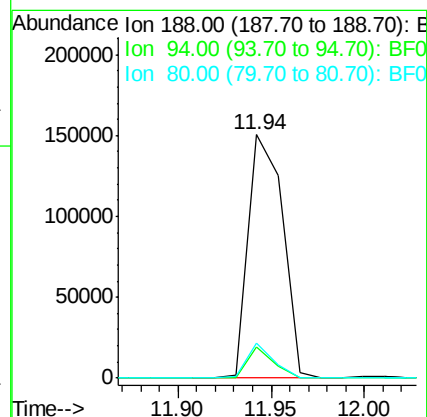
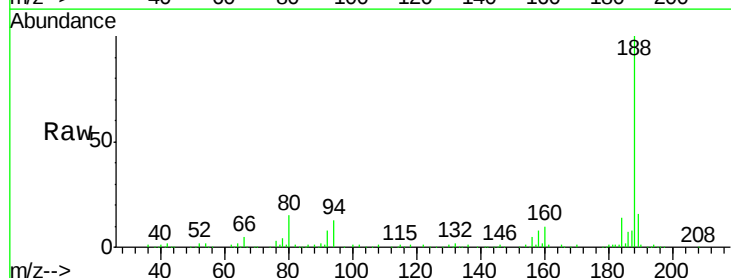
RT: 11.94 min Scan# 941

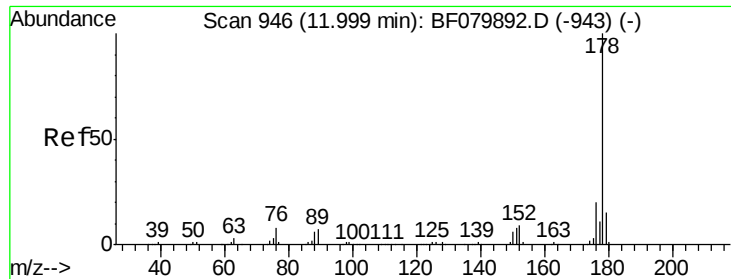
Delta R.T. -0.03 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion:	188	Resp:	193219
Ion Ratio	Lower	Upper	
188	100		
94	13.0	5.8	8.8#
80	14.6	5.9	8.9#





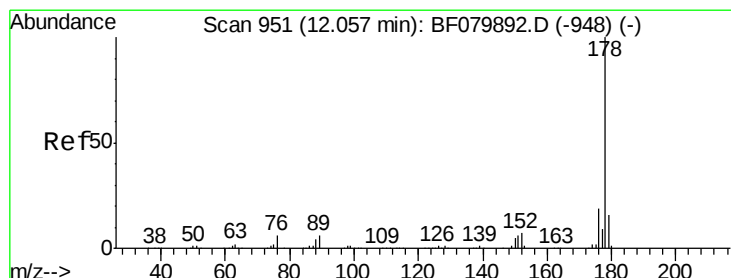
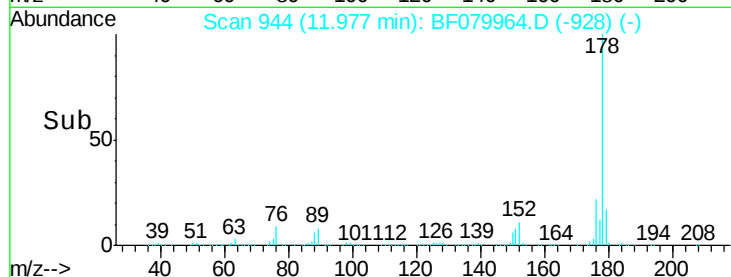
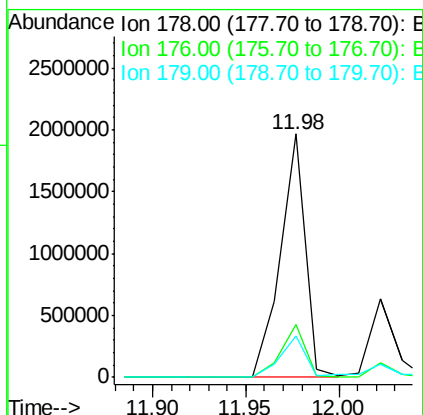
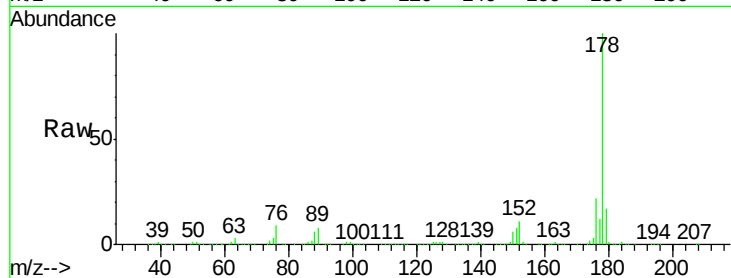
#70
Phenanthrene
Concen: 158.79 ng
RT: 11.98 min Scan# 944
Delta R.T. -0.02 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Instrument :
BNA_F
ClientSampleId :
VALHALLA-W3-6.5-7

Tgt Ion:178 Resp: 1828580
Ion Ratio Lower Upper
178 100
176 21.9 15.9 23.9
179 17.0 12.3 18.5

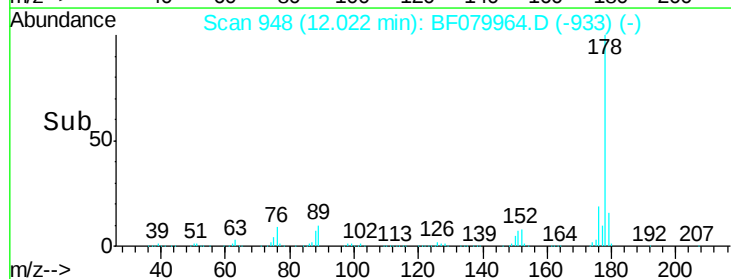
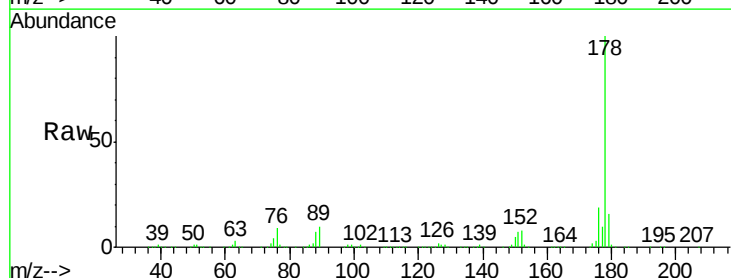
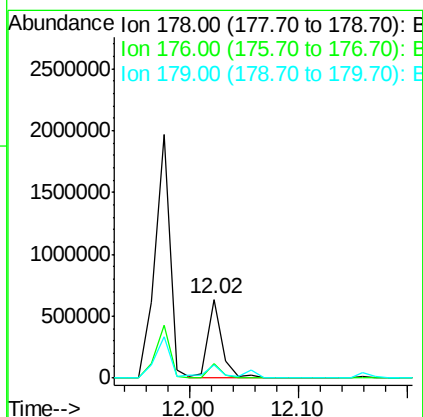
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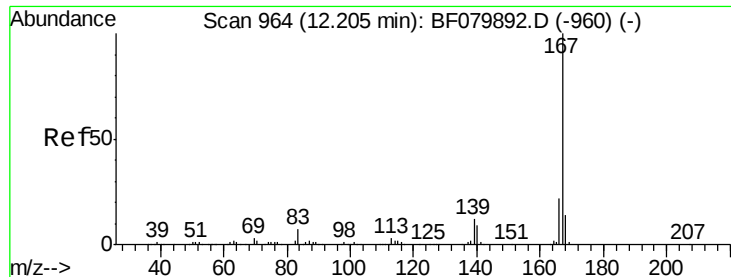
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#71
Anthracene
Concen: 52.37 ng
RT: 12.02 min Scan# 948
Delta R.T. -0.03 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Tgt Ion:178 Resp: 583589
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 16.0 12.5 18.7





#72

Carbazole

Concen: 24.18 ng

RT: 12.17 min Scan# 961

Delta R.T. -0.05 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

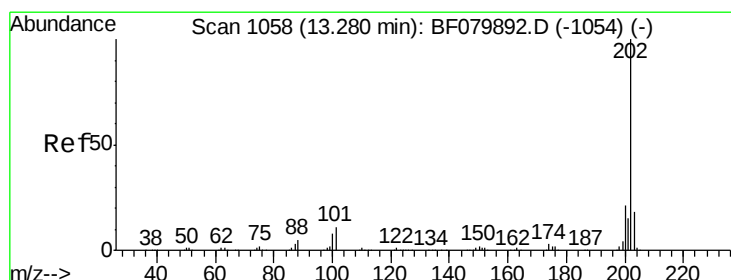
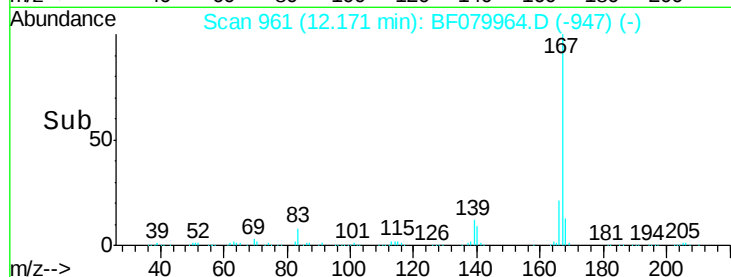
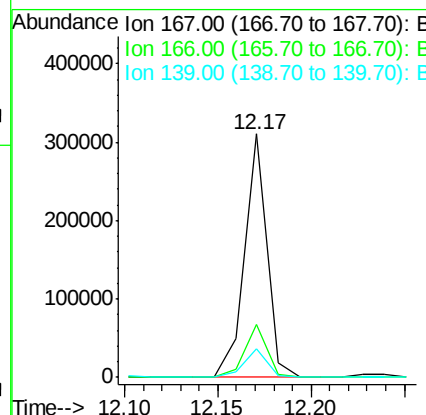
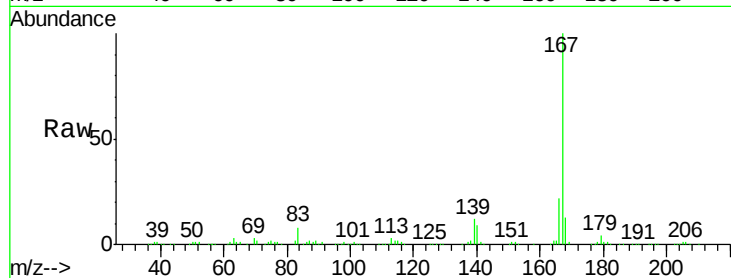
ClientSampleId :

VALHALLA-W3-6.5-7

Tgt Ion:	167	Resp:	261283
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.4	26.2
139	11.9	9.5	14.3

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#74

Fluoranthene

Concen: 163.15 ng

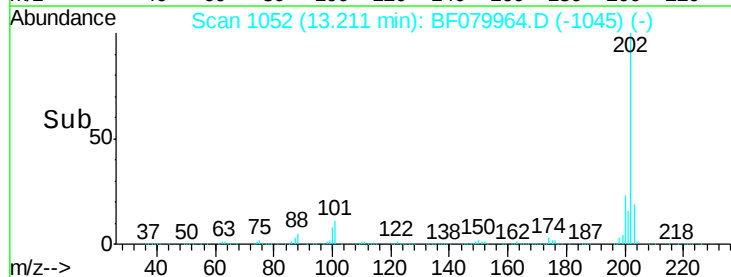
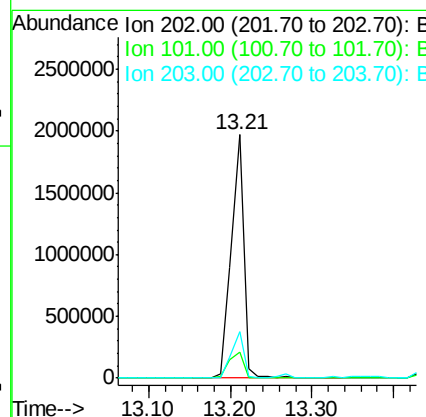
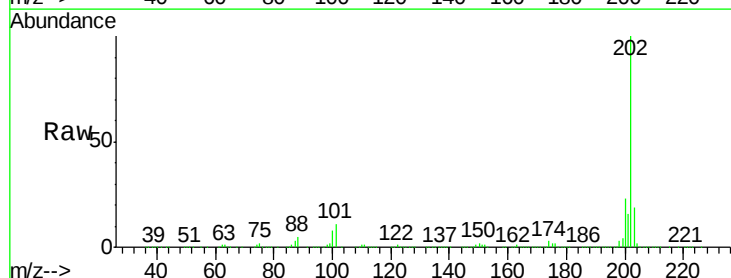
RT: 13.21 min Scan# 1052

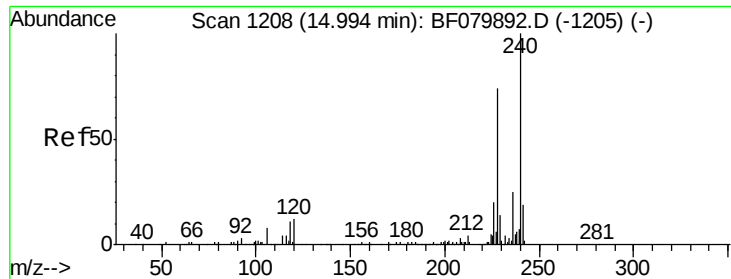
Delta R.T. -0.13 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion:	202	Resp:	2076891
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	30.7
203	19.1	0.0	38.0





#75

Chrysene-d12

Concen: 20.00 ng m

RT: 14.81 min Scan# 1192

Delta R.T. -0.33 min

Lab File: BF079964.D

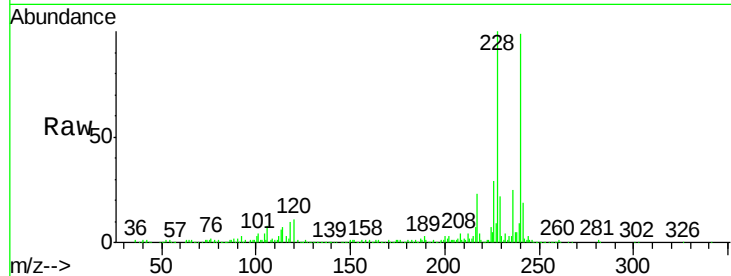
Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

ClientSampleId :

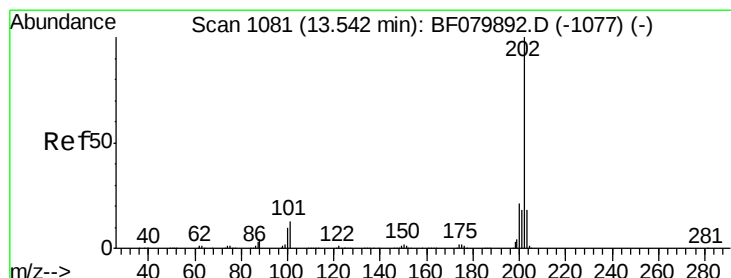
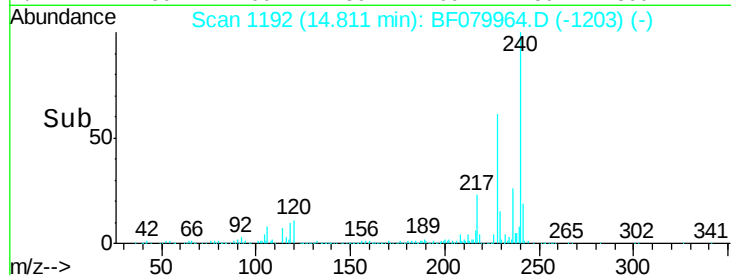
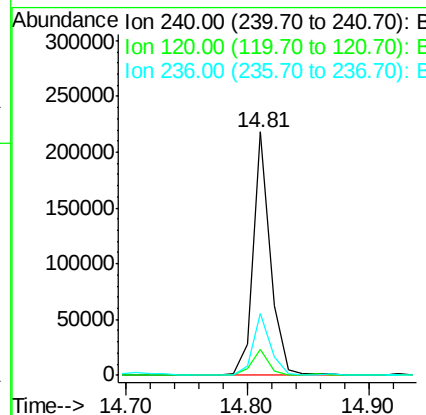
VALHALLA-W3-6.5-7



Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	25.6	19.6	29.4

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#77

Pyrene

Concen: 127.47 ng

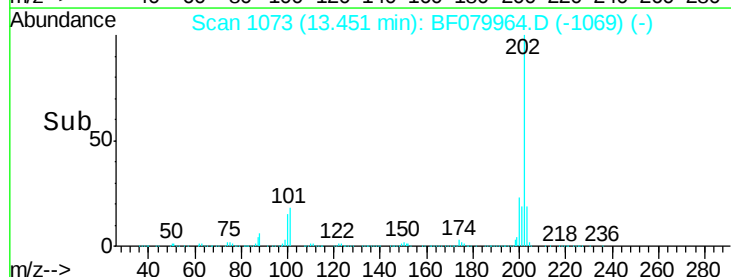
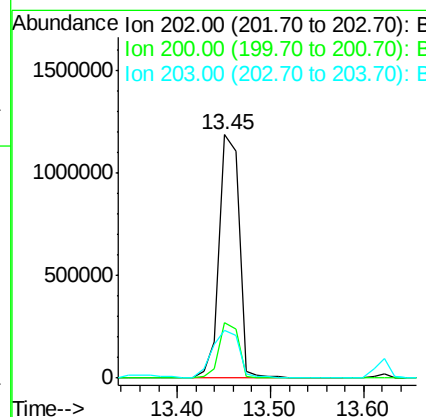
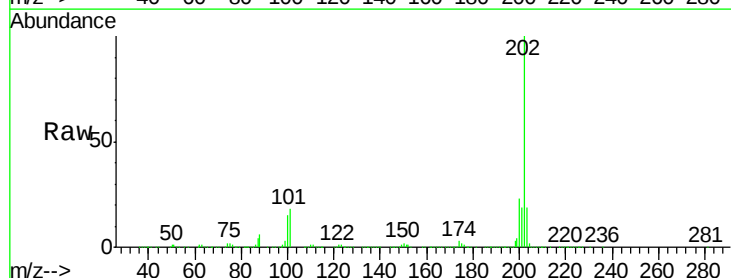
RT: 13.45 min Scan# 1073

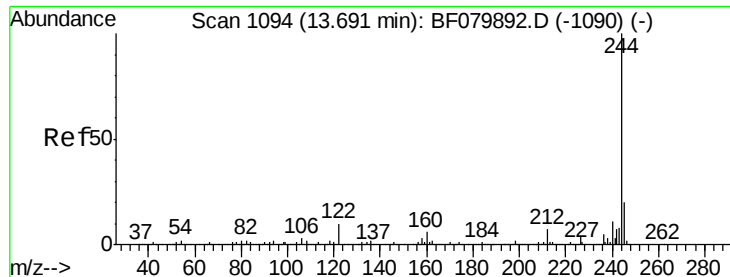
Delta R.T. -0.16 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.7	16.8	25.2
203	19.4	14.4	21.6





#78

Terphenyl-d14

Concen: 31.71 ng m

RT: 13.59 min Scan# 1085

Delta R.T. -0.18 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

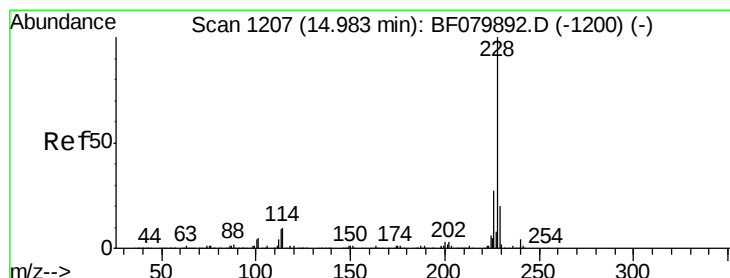
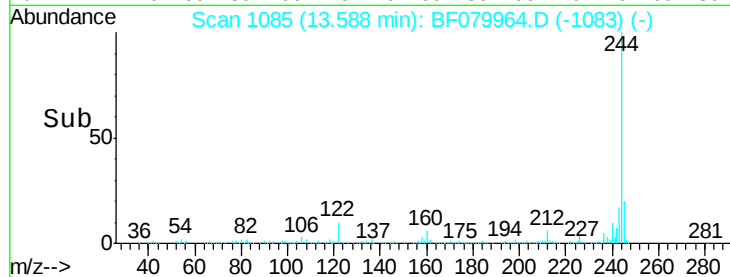
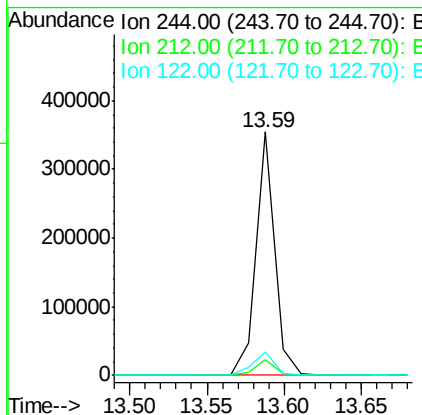
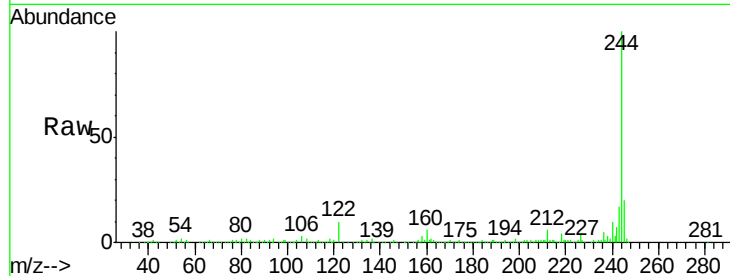
ClientSampleId :

VALHALLA-W3-6.5-7

Tgt Ion:	244	Resp:	303616
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.2
122	9.8	7.8	11.8

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#80

Benzo(a)anthracene

Concen: 71.20 ng m

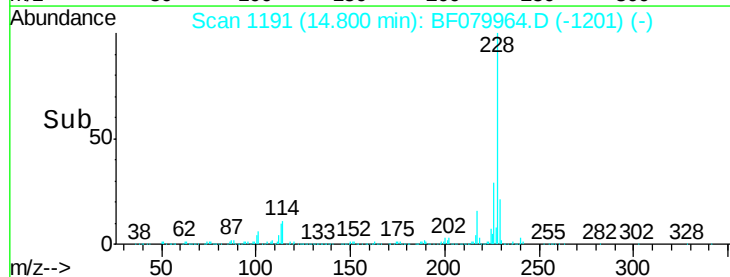
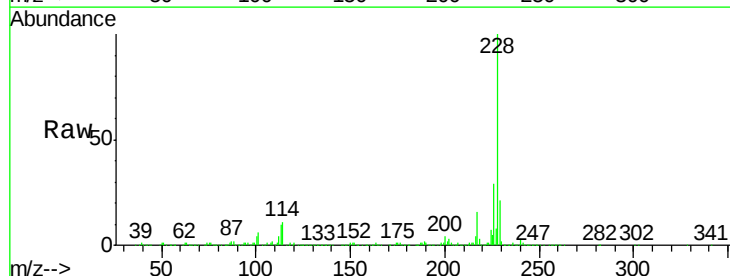
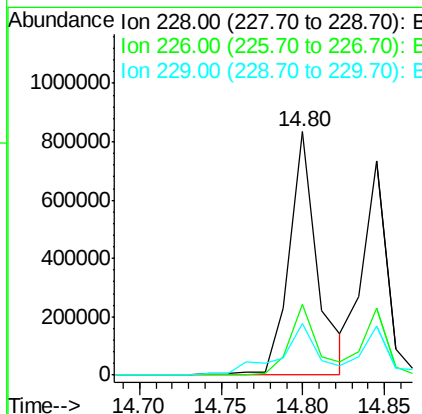
RT: 14.80 min Scan# 1191

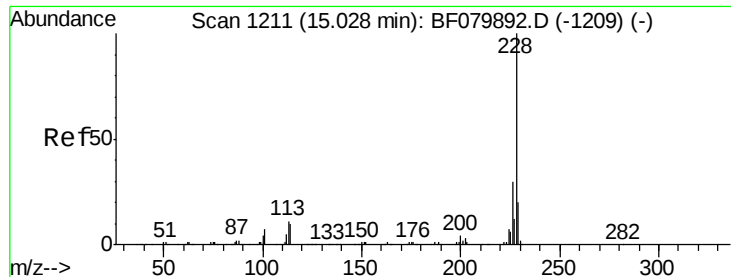
Delta R.T. -0.32 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion:	228	Resp:	998227
Ion Ratio	Lower	Upper	
228	100		
226	28.8	21.8	32.8
229	21.1	15.9	23.9





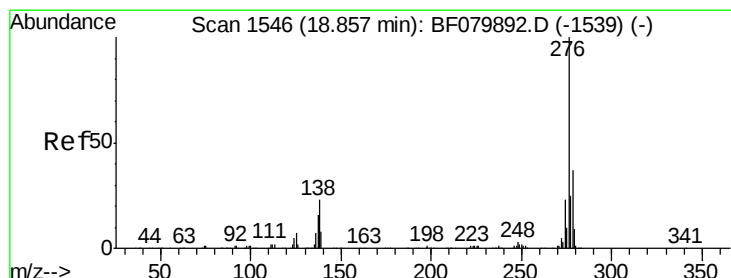
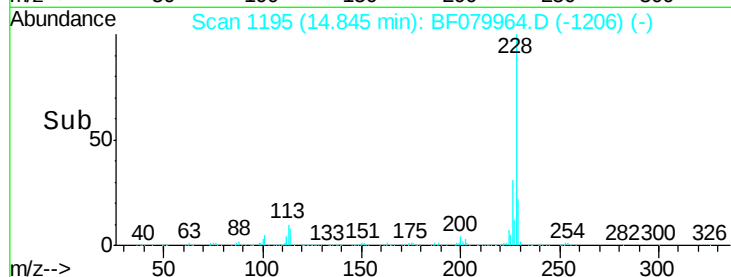
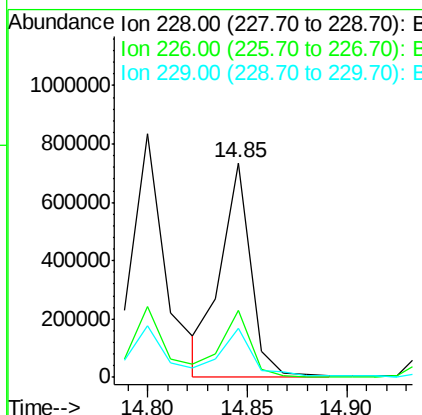
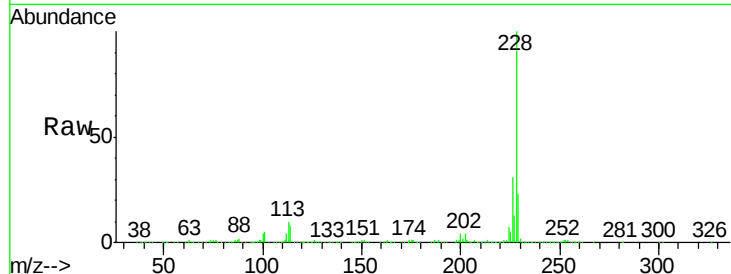
#82
Chrysene
Concen: 62.56 ng m
RT: 14.85 min Scan# 1195
Delta R.T. -0.33 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Instrument :
BNA_F
ClientSampleId :
VALHALLA-W3-6.5-7

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	769615		
226	31.4	23.9	35.9	
229	22.6	16.1	24.1	

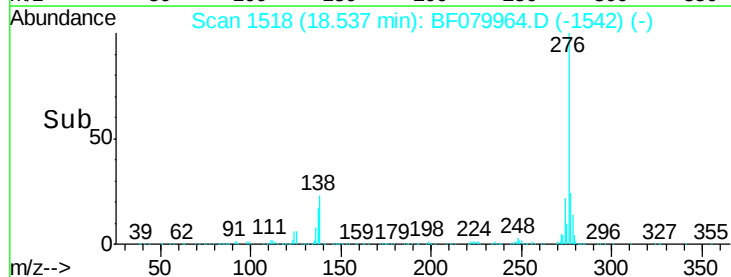
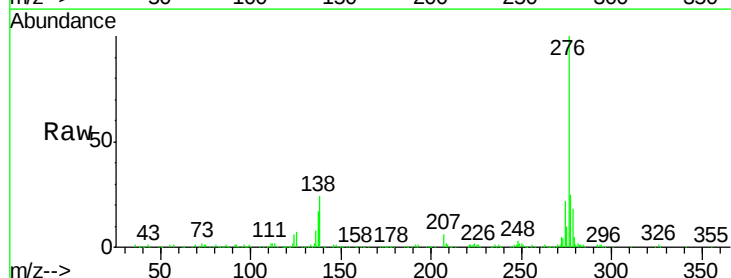
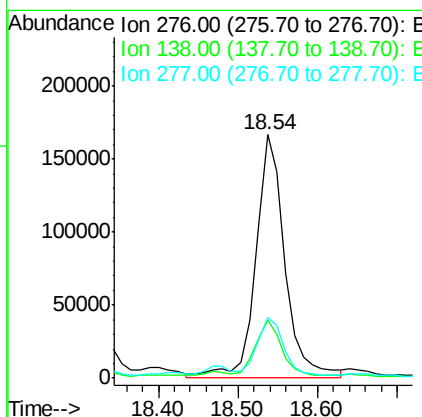
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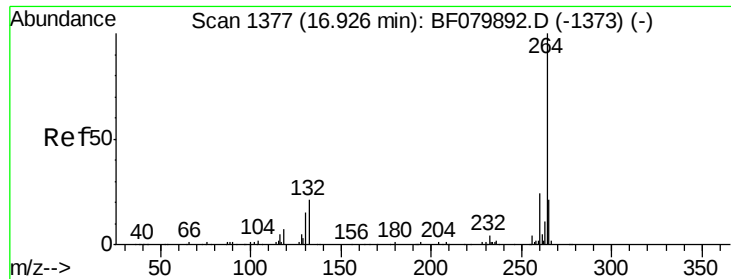
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#85
Indeno(1,2,3-cd)pyrene
Concen: 29.44 ng m
RT: 18.54 min Scan# 1518
Delta R.T. -0.48 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	432221		
138	20.3	21.0	31.4#	
277	20.2	19.9	29.9	





#86

Perylene-d12

Concen: 20.00 ng m

RT: 16.65 min Scan# 1353

Delta R.T. -0.45 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Instrument :

BNA_F

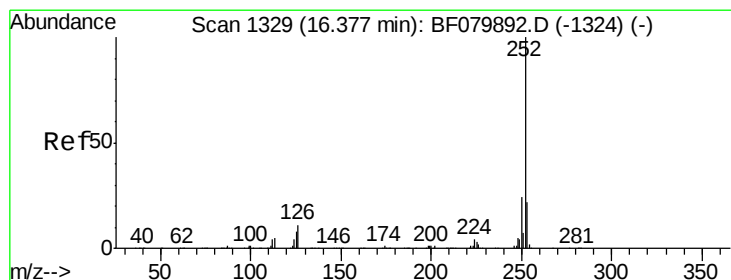
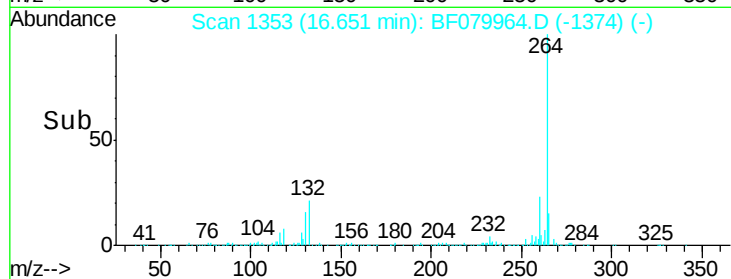
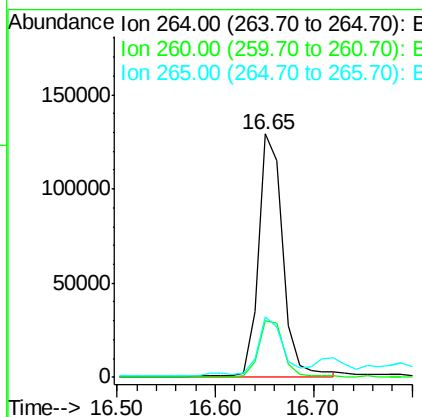
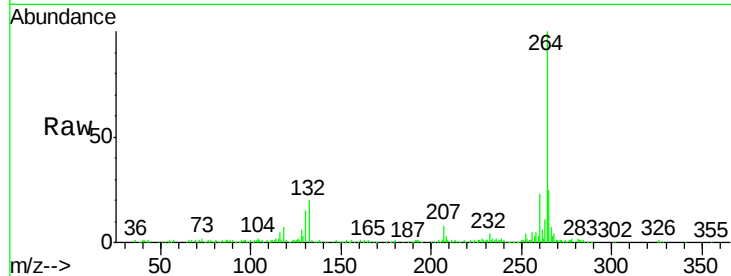
ClientSampleId :

VALHALLA-W3-6.5-7

Tgt Ion:	264	Resp:	225395
Ion Ratio	Lower	Upper	
264	100		
260	23.4	19.3	28.9
265	24.7	17.0	25.6

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#87

Benzo(b)fluoranthene

Concen: 73.16 ng m

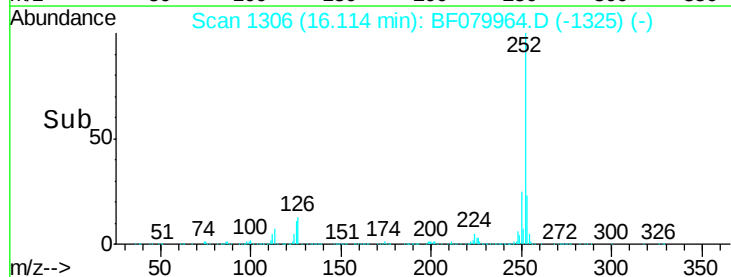
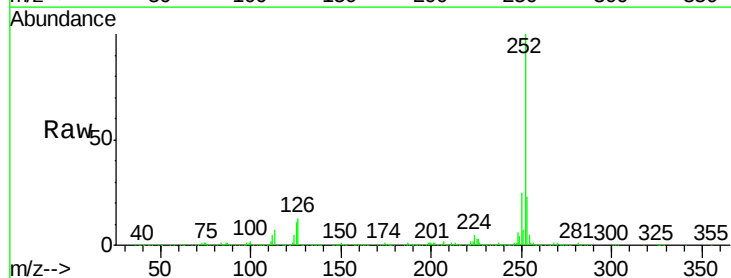
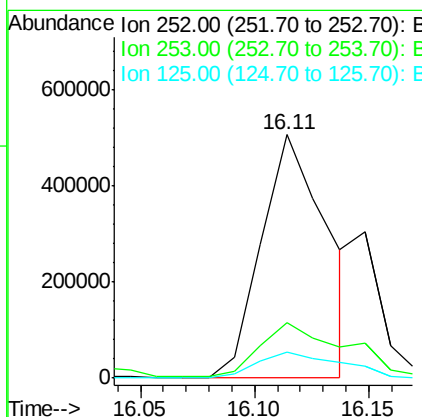
RT: 16.11 min Scan# 1306

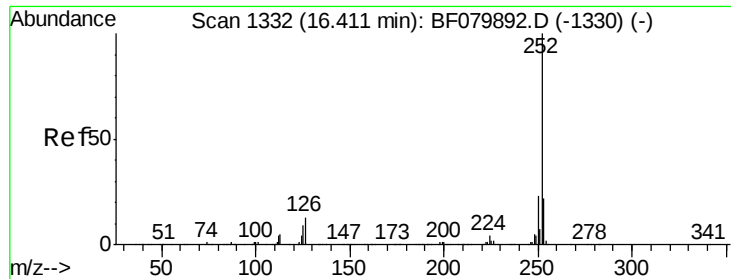
Delta R.T. -0.42 min

Lab File: BF079964.D

Acq: 13 Jun 2015 7:46

Tgt Ion:	252	Resp:	1010333
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.8	26.6
125	10.7	6.5	9.7#





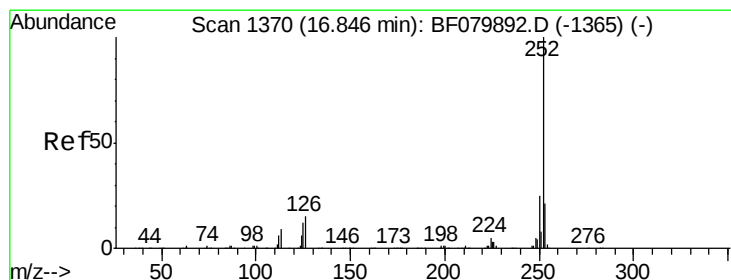
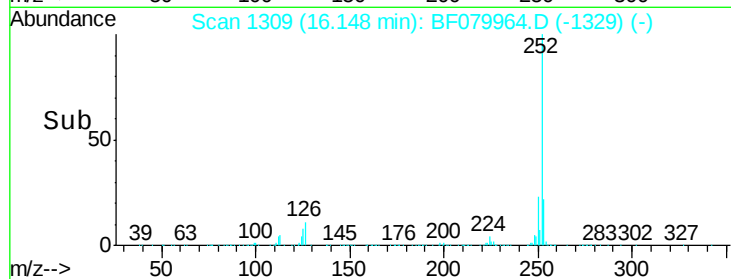
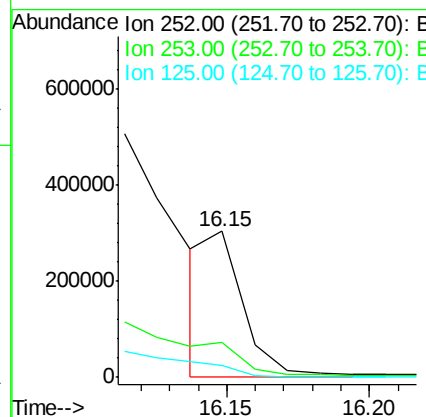
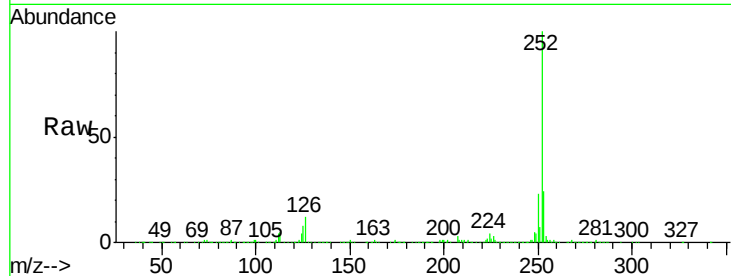
#88
Benzo(k)fluoranthene
Concen: 19.63 ng m
RT: 16.15 min Scan# 1309
Delta R.T. -0.43 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Instrument :
BNA_F
ClientSampleId :
VALHALLA-W3-6.5-7

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.4	26.2
125	8.4	7.4	11.0

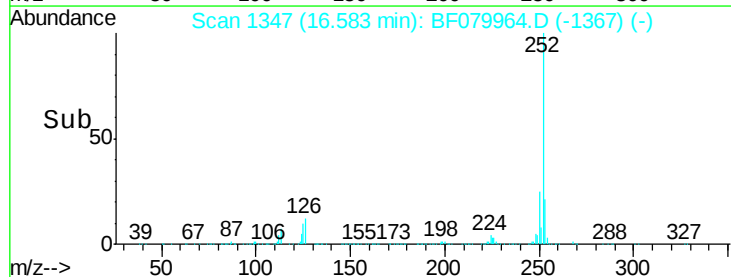
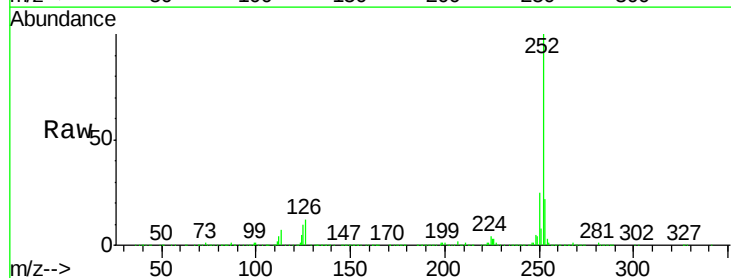
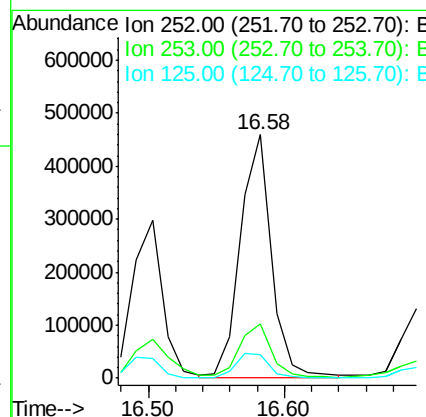
Manual Integrations
APPROVED

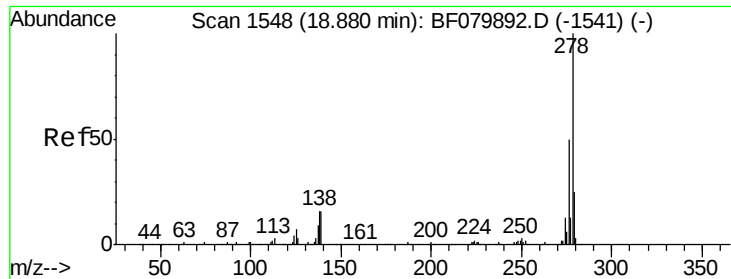
apatel
6/15/2015 1:00:30 PM



#89
Benzo(a)pyrene
Concen: 55.53 ng m
RT: 16.58 min Scan# 1347
Delta R.T. -0.43 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	9.6	9.7	14.5#





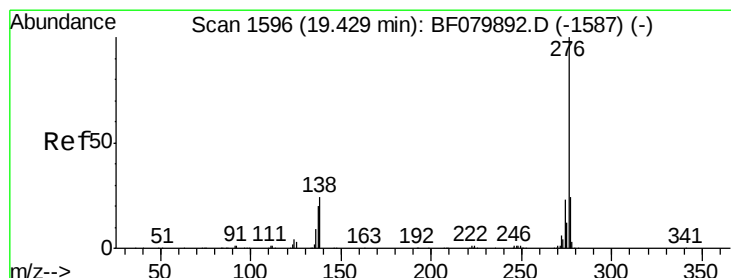
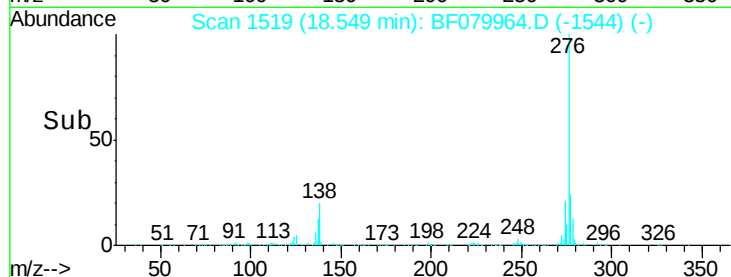
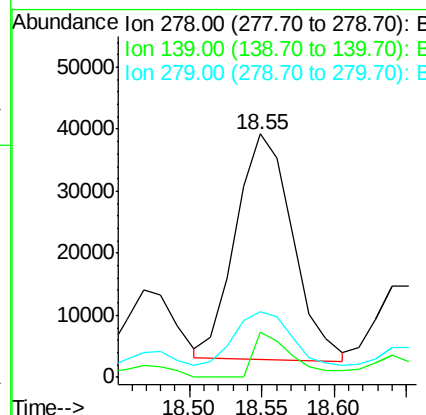
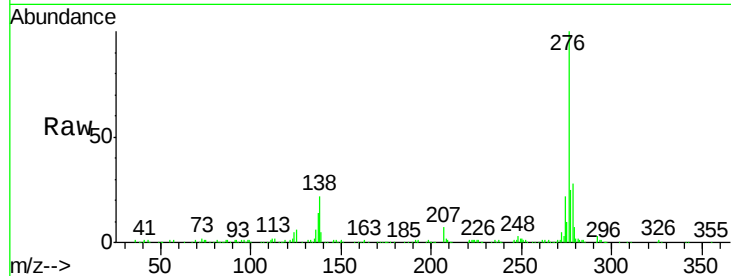
#90
Dibenzo(a,h)anthracene
Concen: 7.68 ng m
RT: 18.55 min Scan# 1519
Delta R.T. -0.49 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Instrument :
BNA_F
ClientSampleId :
VALHALLA-W3-6.5-7

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.4	12.8	19.2
279	26.8	19.7	29.5

Manual Integrations
APPROVED

apatel
6/15/2015 1:00:30 PM



#91
Benzo(g,h,i)perylene
Concen: 30.34 ng m
RT: 19.11 min Scan# 1568
Delta R.T. -0.48 min
Lab File: BF079964.D
Acq: 13 Jun 2015 7:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.4	29.2
138	25.6	19.1	28.7

